

**REMARKS**

Applicant concurrently files herewith a Petition (and fee) for a Two-Month Extension of Time.

Attached hereto is an excess claim fee for three (3) independent claims and one (1) additional dependent claim.

Applicant gratefully acknowledges the indication by the Examiner that claims 2 and 3 would be allowable if rewritten in independent form. Applicant respectfully submits that claims 2 and 3, above, are rewritten in independent form and thus, should be allowed. Applicant further respectfully submits that new claims 27-34, which depend from claims 2 and 3 should also be allowed.

Applicant further gratefully acknowledges the statement by the Examiner that "none of the prior art taught or suggested a liquid crystal display as recited in claim 2, wherein the number of blue LEDs is larger than the number of green LEDs."

Applicant respectfully submits that independent claims 8, 13, 14, 17, and 22, which include either of the features of the number of blue LEDs being larger than the number of green LEDs or the number of green LEDs being not larger than or equal to the number of blue LEDs, are allowable. Therefore, dependent claims 9-12, 15, 16, 18, 19, 21, 23, 24, and 26, which depend from claims 8, 13, 14, 17, and 22 should allowed.

Claims 2, 3, 8-19, 21-24, and 26-34 are pending in the application. This Amendment currently amends claims 2, 3, 8-17, 22-24, and 26, cancels claims 1, 4-7, 20, and 25 without prejudice or disclaimer, and adds new claims 27-34. No new matter is added to currently amended claims 2, 3, 8-17, 22-24, and 26, or to new claims 27-34. Claims 2, 3, 8-17, 22-24, and 26 are amended to merely clarify the subject matter of the claims and in no way narrow the scope of the claims in order to overcome the prior art or for any other statutory purpose of patentability.

Notwithstanding any claim amendments of the present Amendment or those amendments that may be made later during prosecution, Applicant's intent is to encompass equivalents of all claim elements. Reconsideration in view of the foregoing amendments and the following remarks is respectfully requested.

Claims 1-12, 17, 20-22, 25, and 26 stand rejected under 35 U.S.C. §102(e) as anticipated by U.S. Patent No. 6,386,720 to Mochizuki. Claims 13-16, 18, 19, 23 and 24

stand rejected under 35 U.S.C. §103(a) an unpatentable over Mochizuki.

These rejections are respectfully traversed in view of the following discussion.

## I. THE CLAIMED INVENTION

The claimed invention, as described in independent claim 2, is directed to a color-filterless full color liquid-crystal display device that comprises a liquid-crystal shutter portion including a liquid crystal, and a backlight portion including light source units and a planar light guide, in which the light source units comprise at least one red light-emitting device (LED), at least one green LED, and at least one blue LED, in which a first number corresponding to the at least one blue LED is not smaller than a second number corresponding to the at least one red LED, and the first number corresponding to the at least one blue LED is not smaller than a third number corresponding to the at least one green LED, in which the light source units are disposed on an edge of the planar light guide, and in which the number of the blue LEDs is not smaller than the number of the red LEDs and the number of the blue LEDs is larger than the number of the green LEDs.

The claimed invention, as described in independent claim 3, is directed to a color-filterless full color liquid-crystal display device that comprises a liquid-crystal shutter portion including a liquid crystal, and a backlight portion including light source units and a planar light guide, in which the light source units comprise at least one red light-emitting device (LED), at least one green LED, and at least one blue LED, in which a first number corresponding to the at least one blue LED is not smaller than a second number corresponding to the at least one red LED, and the first number corresponding to the at least one blue LED is not smaller than a third number corresponding to the at least one green LED, in which the light source units are disposed on an edge of the planar light guide, and in which two red LEDs, one green LED and two blue LEDs are mounted on a substrate.

The claimed invention, as described in independent claim 8, is directed to a color-filterless full color liquid-crystal display device that comprises a liquid-crystal shutter portion including a liquid crystal, and a backlight portion including light source units and a planar light guide, in which the light source units comprise at least one red light-emitting device (LED), at least one green LED, and at least one blue LED, in which a first number corresponding to the at least one green LED is not larger than a second number corresponding

to the at least one red LED and the first number corresponding to the at least one green LED is not larger than or equal to a third number corresponding to the at least one blue LED, in which the light source units are disposed on an edge of the planar light guide, and in which two red LEDs, one green LED and two blue LEDs are mounted on a substrate.

The claimed invention, as described in independent claim 13, is directed to a color-filterless full color liquid-crystal display device that comprises a liquid-crystal shutter portion including a twisted nematic (TN) liquid crystal, and a backlight portion including light source units and a planar lightguide, in which the light source units comprise at least one red light-emitting device (LED), at least one green LED, and at least one blue LED, in which a first number corresponding to the at least one blue LED is not smaller than a second number corresponding to the at least one red LED, and the first number corresponding to the at least one blue LED is not smaller than a third number corresponding to the at least one green LED, and in which the light source units are disposed on an edge of the planar light guide.

The claimed invention, as described in independent claim 14, is directed to a color-filterless full color liquid-crystal display device that comprises a liquid-crystal shutter portion including a super twisted nematic (STN) liquid crystal, and a backlight portion including light source units and a planar lightguide, in which the light source units comprise at least one red light-emitting device (LED), at least one green LED, and at least one blue LED, in which a first number corresponding to the at least one blue LED is not smaller than a second number corresponding to the at least one red LED, and the first number corresponding to the at least one blue LED is not smaller than a third number corresponding to the at least one green LED, and in which the light source units are disposed on an edge of the planar light guide.

The claimed invention, as described in independent claim 17, is directed to a color-filterless full color liquid-crystal display device that comprises a liquid-crystal shutter portion including a liquid crystal, and a backlight portion including light source units and a light guide, in which the light source units comprise at least one red light-emitting device (LED), at least one green LED, and at least one blue LED, in which a first number corresponding to the at least one blue LED is larger than a second number corresponding to the at least one green LED, and in which the light source units are disposed on an edge of the light guide.

The claimed invention, as described in independent claim 22, is directed to a color-filterless full color liquid-crystal display device that comprises a liquid-crystal shutter portion

including a liquid crystal, and a backlight portion including light source units and a light guide, in which the light source units comprise at least one red light-emitting device (LED), at least one green LED, and at least one blue LED, in which a first number corresponding to the at least one green LED is not larger than or equal to a third number corresponding to the at least blue one LED, and in which the light source units are disposed on an edge of the light guide.

## II. THE PRIOR ART REJECTIONS

### The Mochizuki Reference

The Examiner provides a statement of reasons for the indication of allowable subject matter: "none of the prior art taught or suggested a liquid crystal display as recited in claim 2, wherein the number of blue LEDs is larger than the number of green LEDs."

Claim 17 recite at least the features of "wherein a first number corresponding to said at least one blue LED is larger than a second number corresponding to said at least one green LED."

Applicant respectfully submits that nowhere does Mochizuki disclose, teach or suggest the feature of "wherein a first number corresponding to said at least one blue LED is larger than a second number corresponding to said at least one green LED," as recited in claim 17.

Claims 8 and 22 recite at least the features of "wherein a first number corresponding to said at least one green LED is not larger than or equal to a second number corresponding to said at least one blue LED." Applicant respectfully submits that the underlined feature of claims 8 and 22 is logically equivalent to the underlined feature of claim 17.

Applicant respectfully submits that nowhere does Mochizuki disclose, teach or suggest the feature of "wherein a first number corresponding to said at least one green LED is not larger than or equal to a second number corresponding to said at least one blue LED," as recited in claims 8 and 22.

For at least the reasons outlined above, Applicant respectfully submits that nowhere does Mochizuki disclose, teach or suggest every feature of claims 8, 17, and 22. Accordingly, Mochizuki does not anticipate, or render obvious, the subject matter of claims 8, 17, and 22 and claims 9-16, 18, 19, 21, 23, 24, and 26, which depend from claims 8, 17, and 22. As

respectfully submitted above, claims 2 and 3 are rewritten in independent form and should be allowed. By this Amendment, claims 1, 4-7, 20, and 25 are canceled without prejudice or disclaimer; hence, the rejection of claims 1, 4-7, 20 and 25 is moot. Withdrawal of the rejection of claims 1-12, 17, 20-22, 25, and 26 under 35 U.S.C. §102(e) as anticipated by Mochizuki and the rejection of claims 13-16, 18, 19, 23, and 24 under 35 U.S.C. §103(a) as unpatentable over Mochizuki is respectfully solicited.

## CONCLUSION

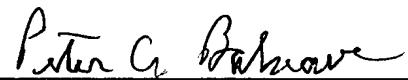
In view of the foregoing, Applicant submits that claims 2, 3, 8-19, 21-24, and 26-34 all the claims presently pending in the application, are patentably distinct over the prior art of record and are in condition for allowance. The Examiner is respectfully requested to pass the above application to issue at the earliest possible time.

Should the Examiner find the application to be other than in condition for allowance, the Examiner is requested to contact the undersigned at the local telephone number listed below to discuss any other changes deemed necessary in a telephonic or personal interview.

The Commissioner is hereby authorized to charge any deficiency in fees or to credit any overpayment in fees to Attorney's Deposit Account No. 50-0481.

Respectfully Submitted,

Date: 12/10/03

  
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